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[Continued on next page]

(54) Title: METHODS AND REAGENTS FOR TREATING, PREVENTING AND DIAGNOSING *BUNYAVIRUS* INFECTION

DNA: AGTAGTGTACTACCAAGTATAGATAACGTTTGAATATTAAGTTTGAATC 51
DNA: AAGGCCAAGATGATTGTATATTGGTGCCTAATTACAGTTGCAGCTGCAAG 102
M(1): M I C I L V L I T V A A A S

DNA: CCCAGTGTATCAAGGTGTTTCCAAGATGGGGCTATAGTGAAGCAAAACCC 153
M(15): P V Y Q R C F Q D G A I V K Q N P

DNA: ATCCAAAGAGCAGTTACAGAGGTGTGCGTGAAGATGATGTTAGCATGAT 204
M(32): S K E A V T E V C L K D D V S M I

DNA: CAAAACAGAGCCAGGTATGTAAGAAATGCAACAGGAAGTTTTCAAATAA 255
M(49): K T E A R Y V R N A T G V F S N N

DNA: TGTGCAATAAGAAATGGCTAGTCTCTGATTGGCATGATTGCAGGCCTAA 306
M(66): V A I R K W L V S D W H D C R P K

DNA: GAAGATCGTTGGGGACACATCAATGTAATAGAAGTTGGTGATGACCTGTC 357
M(83): K I V G G R I N V I E V G D D L S

DNA: ACTCCATCTGAATCATATGTTTGCAGCGCAGATTGTACCATAGGTGTAGA 408
M(100): L H T E S Y V C S A D C T I G V D

DNA: CAAAGAGACTGCAGGTGAGGCTTCAGACAGATACCACAAATCATTTGA 459
M(117): K E T A Q V R L Q T D T T N R F E

DNA: AATTGCAGGCACTACTGTGAAGTCAGGATGGTTCAGAGCAGCAGATATAT 510
M(134): I A G T T V K S G W F K S T T Y I

DNA: AACTCTTGTCAAACTTSCGAACACCTTAAAGTTTCC TGGCGGCCAAATC 561
M(151): T L D Q T C E H L K V S C G P K S

DNA: TGTACAGTTCATGCTGCTTCAATCAGCATATGCTTGCCTCAGATTTT 612
M(168): V Q F H A C F N Q H M S C V R F L

DNA: ACACAGGACAATATTCCTGGCTCTATAGCCATTCATATGTCAGAAATAT 663
M(185): H R T I L P G S I A N S I C Q N I

DNA: CGAAATCATAATTTAGTTACACTTACTCTATTAATCTTTATATGTTAAG 714
M(202): E I I I L V T L T L L I F I L L S

DNA: CATTTTAAGTAACTTATATATGTTATTTATTAATGCTTATATTCATCCC 765
M(219): I L S K T Y I C Y L L M P I F I P

DNA: CATAGCATATATACGGTATAATTTACATAAGTCGTGCAAAAATGCAA 816
M(236): I A Y I Y G I I Y N K S C K K C K

DNA: ATTATGTCCTTAGTGTATCATCCATTCAGAGGTGTGGCACACATTTGT 967
M(253): L C G L V Y H P F T E C G T H C V

DNA: CTGTGGTCCCGCTATGATCTTCAGATGAATGAAGCTGCATAGAGCTTC 918
M(270): C G A R Y D T S D R M K L H R A S

DNA: TGGATGTGCTGCTGTTATAAAGCCTAAGAGCTGCCAGAGTCATGTCAA 969
M(287): G L C P G Y K S L R A A R/V M C K

(57) Abstract: Immunogenic compositions for use in treating, preventing and diagnosing infection caused by the California (CAL) serotype of the genus *Bunyavirus*, such as La Crosse virus (LACV), are disclosed. Also described are reagents for use in diagnostic assays.

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